

**Notice of Allowability**

Application No.

09/779,038

Examiner

Qutub Ghulamali

Applicant(s)

GARA, ALAN GENE

Art Unit

2611

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/18/2006.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
**JEAN B. CORRIELUS**  
**PRIMARY EXAMINER**

6-8-06

### **DETAILED ACTION**

1. This Office Action is in response to the amendment/remarks filed 04/18/2006.

#### ***Response to Remarks***

2. Applicant's remarks/amendment see Appendix A, B and C, filed 04/18/2006, with respect to claims 1-14, and newly added claims 15 and 16, have been fully considered and as a result, claims 1-16 are now indicated allowable. However, in the interest of compact prosecution in the case, an examiner's amendment is considered necessary to correct for some minor deficiencies in the drawings, specification and the claims. The examiners amendment follows.

#### ***Reason for Allowance***

3. Applicant's remarks/amendment, see Appendix C under remarks third paragraph and as recited in independent claims 1, 6, 9 and 10, filed April 18, 2006 with respect to the rejection of claims 1-16 have been fully considered and are persuasive. The rejection of claims 1-16 has been withdrawn.

4. Claims 1-16 allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **EXAMINER'S AMENDMENT**

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Thomas A. Becker on 1/5/2006, 6/8/2006.

The application has been amended as follows:

#### **IN THE DRAWINGS:**

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

Delete Figure 2 (submitted on 4/2/2001) and Figure 2A (submitted on 11/04/2004). Add Drawing pages 2 and 3, Figures 2A and 2B respectively per attached exhibits.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

#### **IN THE SPECIFICATION:**

Page 3, line 4, "Figure 2 is a functional block diagram of the invention" has been replaced with,  
-- Figure 2A is a functional block diagram of the input stage of the present invention.

Figure 2B is a functional block diagram of the differential amplifier stage of the present invention. —

Page 4, lines 17 and 22, “Figure 2” has been replaced with -- Figure 2A and 2B -- respectively.

Page 5, line 1, “Figure 2” has been replaced with -- Figure 2A --.

Page 5, line 16, “Figure 2” has been replaced with -- Figure 2B --.

Page 6, line 2, “Figure 2” has been replaced with -- Figure 2A --.

#### IN THE CLAIMS:

In claim 1, line 5, after “extraction of phase shift signals” -- a system -- has been inserted.

In claim 1, line 17, “voiltage” has been replaced by -- voltage --.

In claim 6, line 1, “Clocked” has been replace by -- A clock --.

In claim 6, line 1, after “information processing” -- apparatus -- has been inserted.

In claim 6, line 2, “arrangement” has been replaced with -- arranging --.

In claim 9, line 1, after “The” -- method of -- has been inserted.

In claims 10 and 16, line 1, “Data” has been replaced by -- A data -- respectively.

#### ***Contact Information***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qutub Ghulamali whose telephone number is (571) 272-3014.

The examiner can normally be reached on Monday-Friday, 7:00AM - 4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

QG.  
June 8, 2006.

  
JEAN B. CORRIELUS  
PRIMARY EXAMINER

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Exhibit Figure 2A  
Q9

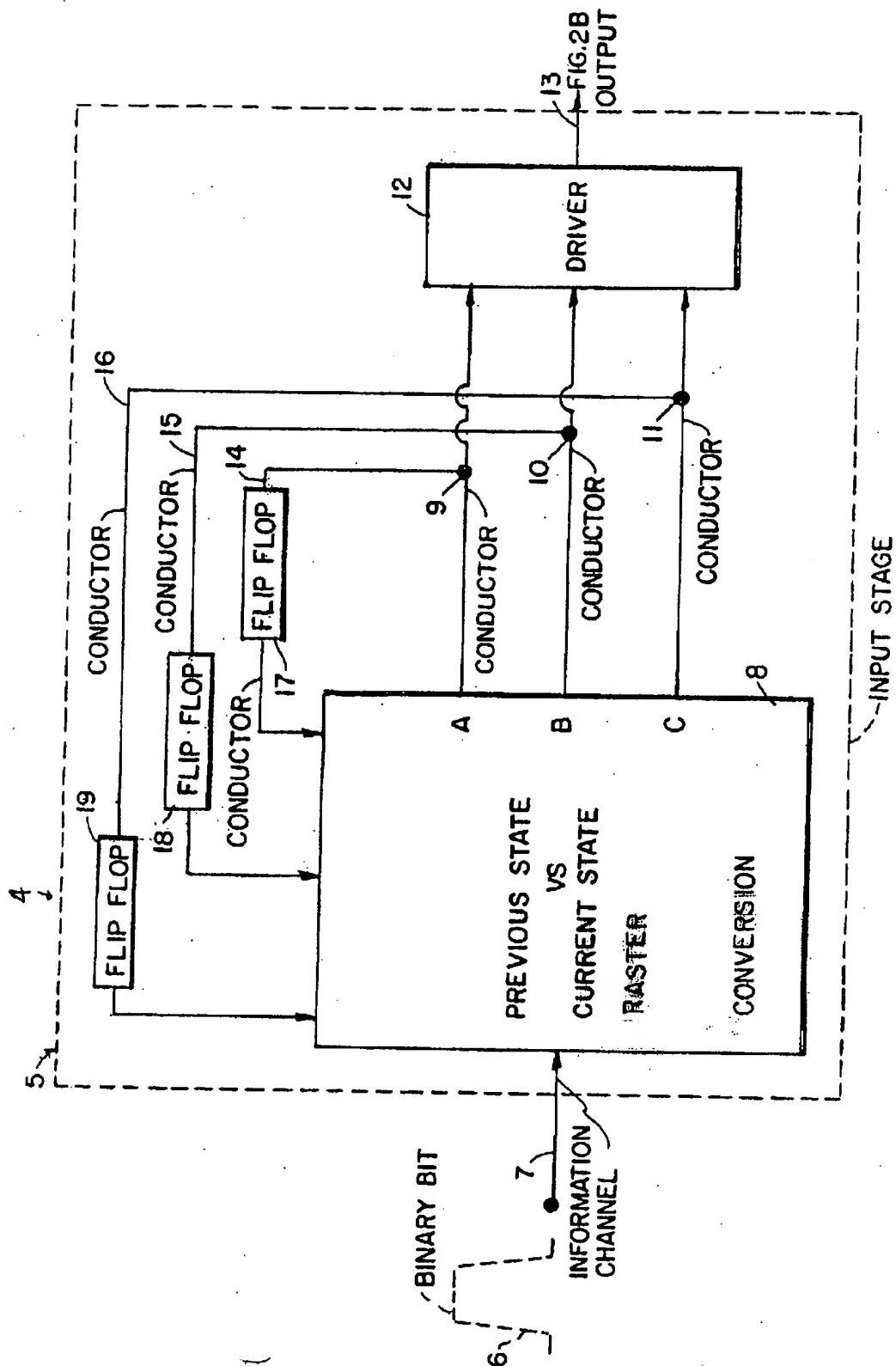


FIG. 2A

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Exhibit 2B  
96

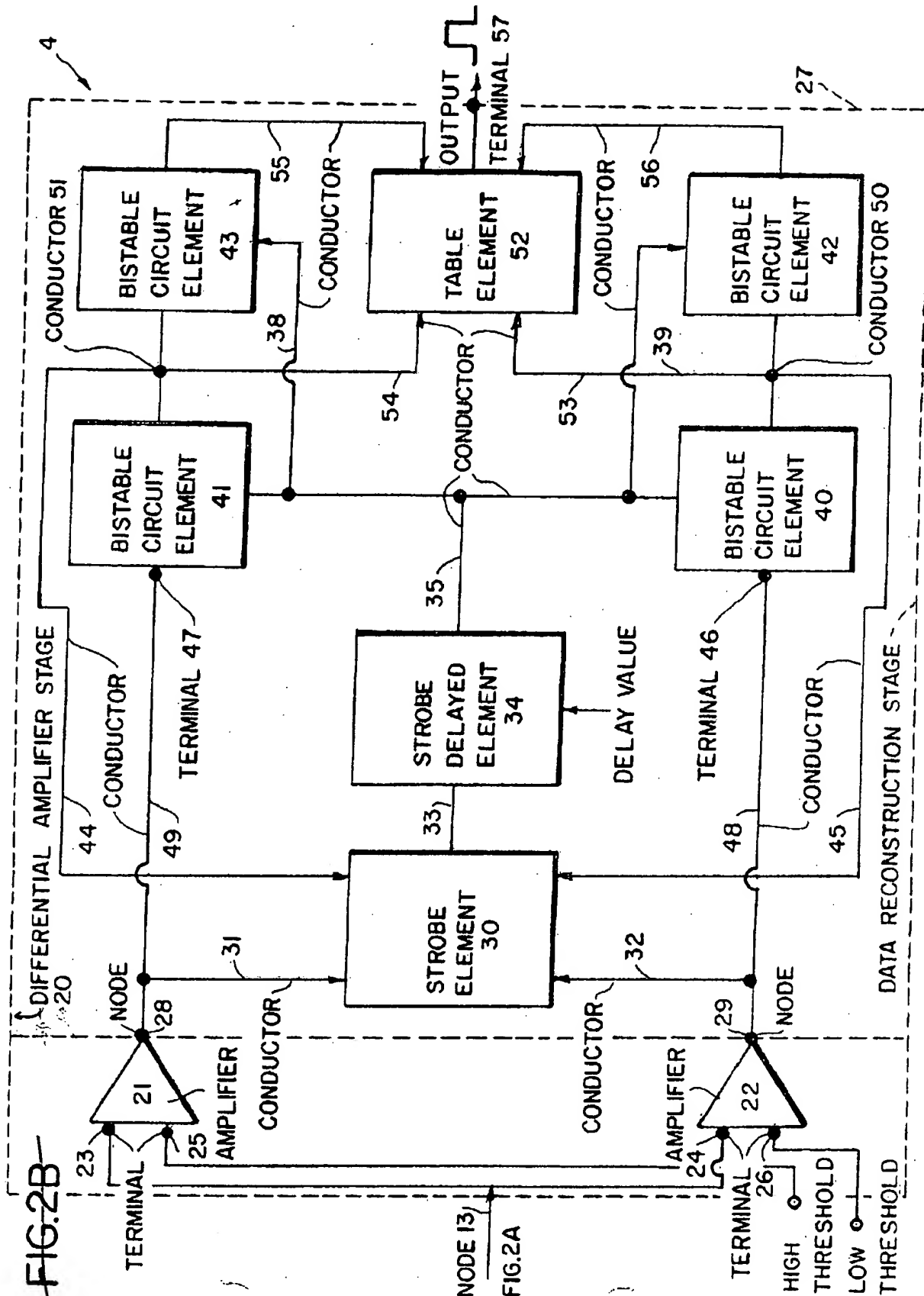


FIGURE 2B